

ABSTRACT

A reduced pressure backflow preventer includes a body defining a passageway for flow of fluid between a supply pipe and a service pipe; a check valve positioned in the passageway; a relief valve assembly positioned downstream of the check valve; and a
5 stabilization device for delaying opening of the relief valve assembly. In one embodiment, the stabilization device includes a reservoir coupled to the body and configured to release fluid, thereby to delay operation of the relief valve assembly. In another embodiment, the stabilization device includes a charging device for increasing the effective volume of the region at the service side of the check valve, thereby to delay operation of the relief valve
10 assembly.